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WRITTEN OPINION OF THE

ace form to the fall of			INTERNATIONAL SEARCHING AUTHOR		
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	ee form PCT/ISA/210 (second sheet)	
applicant's or agent's f			FOR FURTHER See paragraph 2 be		
nternational application		International filing data	te (day/month/year)	Priority date (day/month/year) 22.12.2003	
nternational Patent Cl 212Q1/04. G01N3		both national classificat	ion and IPC		
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. This opinion	contains indicati	ions relating to the	following items:		
⊠ Box No. I	Basis of the or				
☐ Box No. II	Priority				
☐ Box No. III		ment of opinion with a	egard to novelty, inven	tive step and industrial applicability	
☐ Box No. IV	Lack of unity of				
⊠ Box No. V	Reasoned sta	tement under Bule 43	Bbis.1(a)(i) with regard to ions supporting such st	o novelty, inventive step or industrial atement	
☐ Box No. VI	Certain docum	nents cited			
☐ Box No. VI		s in the international			
□ Pay Na VI	I Certain observ	vations on the interna	tional application		
LI BOX NO. VI					
. FURTHER AC	TION				
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Name and mailing address of the ISA:



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	Box N	lo. I	Basis of the opinion				
١.	With r	egard nguag	d to the language, this opinion has been established on the basis of the international application ge in which it was filed, unless otherwise indicated under this item.	in in			
	la	ngua	pinion has been established on the basis of a translation from the original language into the foll (ge), which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).	owing			
2.	With r	regard to any nucleotide and/or amino acid sequence disclosed in the international application and issary to the claimed invention, this opinion has been established on the basis of:					
	a. type	rpe of material:					
		a se	equence listing				
		tabl	le(s) related to the sequence listing				
	b. forr	o. format of material:					
		in w	written format				
		in c	computer readable form				
	c. time	of fil	iling/furnishing:				
		con	ntained in the international application as filed.	٠			
		filed	d together with the international application in computer readable form.				
		furn	nished subsequently to this Authority for the purposes of search.	3			
3.	h	as be	ition, in the case that more than one version or copy of a sequence listing andor table relating sen filed or furnished, the required statements that the information in the subsequent or addition is identical to that in the application as filed or does not go beyond the application as filed, as oriate, were furnished.	nai			

4. Additional comments:

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-14
No: Claims

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Inventive step (IS) Yes: Claims 1-14

No: Claims

Industrial applicability (IA) Yes: Claims 1-14

No: Claims

2. Citations and explanations

see separate sheet

Re Item V.

- 1 Reference is made to the following document:
 - D1: EP-A-0 841 403 (IDEMITSU KOSAN COMPANY LIMITED) 13 May 1998.
- 2. Claims 1-14 are novel (article 33(2)PCT).

The cited prior art does not disclose:

a device for characterising microorganisms, comprising a porous body having regions of different pore sizes associated with different chromogens specific for the enzymes produced by the microorganisms to be detected (claims 1-13); a method for characterising bacteria which makes use of the device of claims 1-13.

- 3. Independent claim 1 is inventive (article 33(3) PCT).
- a. D1 (see in particular page 4, lines 51-55 and claim 25), representing the closest prior art, discloses a device for detecting bacteria, comprising a first filter having a pore size of 30-70 μm to separate bacteria from animal and vegetal cells, a second filter having a pore size of 0,45-4 μm for trapping bacteria, and a dye for colouring bacteria.
- b. The main difference between claim 1 and D1 is that, in claim 1, the regions of different pore sizes are associated with different chromogens specific for the enzymes produced by the microorganisms to be detected. The technical effect produced by this difference is that the specificity of detection is enhanced, as different microorganisms are differentiated not only on the basis of the different enzymes they produce but also on the basis of their different sizes. The technical problem of claim 1 in view of the closest prior art is therefore to provide a device for characterising microorganisms with a better specificity. The solution proposed involves the use of regions of different pore sizes having different chromogens specific for the enzymes produced by the microorganisms to be detected. Such solution is inventive, as it is not suggested by the cited prior art.
- 3.1. Claims 2-13, dependent on inventive claim 1, are also inventive.

- 3.2. The method of claim 14, which makes use of the inventive device of claims 1-13, is also inventive.
- 4. It is further noted that the term "IPTG" (claim 10) is unclear (article 6 PCT).